JCOS Rec'd PCT/PTO 10 AUG 2005



PATENT APPLICATION CS-8440 LeA 36,202

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF
ALEXANDER STRAUB
SERIAL NUMBER: 10/518,454
FILED: DECEMBER 20, 2004
TITLE: METHOD FOR PRODUCING HETEROCYCLIC FLUOROALKENYL SULFONES

## **INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements, a copy of the foreign document and the articles listed on the attached Form PTO-1449 are enclosed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an enveloped addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on 8/08/05
Date
Richard E.L. Henderson, Reg. No. 31,619
Name of applicant, assignee or Registered Representative
Kicher El Herd
Signature
August 8, 2005
Date

Concise statements of the presently understood relevance of each of the documents are found in the specification filed.

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any document mentioned herein constitutes prior art, or that the documents listed severally or in any combination with one another or with any other information, are believed to render any claim in the subject application prima facie unpatentable.

Respectfully submitted,

y Kicherl

Richard E.L. Henderson Attorney for Applicant(s)

Reg. No. 31,619

Bayer CropScience LP 100 Bayer Road Pittsburgh, Pennsylvania 15205-9741 (412) 777-3809 FACSIMILE PHONE NUMBER (412)777-3902 s:\bsh\RH3079

	٠								<b>.</b>					
For	m PTO 144 7. 7-80 ' LI	ST QE	U.S. Department of Patent and Trademai	k Office	ANT		Atty. Docket No CS-8440/LeA 36,202 Applicant		Sheet <u>1 of 3</u> Serial No. 10/518,454					
1/	Allo 4 0 4	(USE	Several Sheets If Ne	cessary)			Alexander Straub							
•	AUG 1 0 2	CUUD 😁	}				Filing Date December 20, 2004	Filing Date Group						
		\$			U.S.	PATE	INT DOCUMENTS	F DOCUMENTS						
EXAMINER INITIAL			DOCUMENT NUM	DATE		NAME	CLASS	SUBCLASS	IF AF	G DATE PPRO- IATE				
		AA	3,513,172		05/19/70		Brokke	260	302					
L		AB 3,697,538			10/10/72		Boocock et al	260	309					
					10,10,		(Bel. to corresp. to WO	95/24403)	309					
	<del></del> -	AC	5,705,516		01/06/98		Tumbull et al	514	376					
		AD	5,912,243		06/15		(Bel. to corresp. to WO Dowling et al	95/24403) 514	241					
		T					(Bel. to corresp. to WO	95/24403)	241	<del></del>				
		AE	5,952,359		09/14	<del>1/9</del> 9	Godfrey et al	514	369					
	AF 5.965,737				10/12	2/99	Prasad et al	548	136					
	AG 6,031,108				02/29/00		Prasad et al	548	142					
AH 6			6,734,198 B1	İ	05/11/04		(Bel. to corresp. to WO Watanabe et al	01/02378) 514	369					
							(Bel. to corresp. to WO	02/06256)	309	+-				
		Al	2003/0207869		11/06/03		Kraatz et al	514	226.8					
AJ			2004/0106658 A1		06/03/04		(Bel. to corresp. to WO Kraatz et al	02/06257) 514	369					
							(Bel. to corresp. to WO	02/06260)						
		AK	2004/0127525 A1	EC	07/01		Kraatz et al	514	362					
	1	Γ			HEIC	IN PA	TENT DOCUMENTS		т					
	ļ	DOC	CUMENT NUMBER	DATE			COUNTRY	CLASS	SUBCLASS	TRANSL	.ATION			
	<del> </del>	-	<del></del>	<del> </del>		(Bel. to corresp. to EP 926 143)				Yes	No			
	AL	2,254,	,579	06/12/99 Ca		Canac	o corresp. to EP 926 143) Ja				1			
	AM	*02/06	5259			World Patent					<del>                                     </del>			
	AN	*01/66	5529	09/13/01		World Patent								
	AO	*01/02	2378	01/11/01		World Patent								
	AP			0.,7.,7		· · · · ·	i atent	<del>                                     </del>						
			OTHER PRIOF	ART (	Includ	dina A	uthor, Title, Date, Perti	inent Pages	Etc.)					
l etrahedron 57, (month unavailable) 2001, nanes							2001 names 2469-24	76 Kazubik	Sato et al "C	vidation	of			
	AR	I '	sumaes to sultoxic	ies and	sulfo	nes w	ith 30% hydrogen perc	xide under	organic solven	raidalion t- and	UI .			
_			sulfides to sulfoxides and sulfones with 30% hydrogen peroxide under organic solvent- and halogen-free conditions											
			Spec. Publ R. Soc. Chem. 260, (month unavailable) 2001, pages 47-53, David A Jackson et al.											

AS "Sulphones by Oxidation – The Development Perspective"

Synthesis, No. 4, (month unavailable) 1999, pages 507-509, John Leonard et al, "A Practical Large-Scale Synthesis of 3-Carbomethoxy-3-sulfolene"

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Copies of documents previously submitted by WIPO.

For	m PTO 1449	<u>.                                    </u>	U.S. Conatmento						<u>2 of 3</u>			
	. 7-80		Patent and Trademar	k Office		Atty. Docket No Serial No. CS-8440/LeA 36,202 10/518,454						
	LIS	ST OF Use	PRIOR ART CITED BY	CARPLICANT		Applicant						
		,	Several Sheets Hiller	الا العد		Alexander Straub Filing Date		Group				
<u> </u>			THE STATE OF THE S	<del>}</del>	DATENT	December 20, 2004						
	XAMINER	Т	MADEMA		). PAIENI	DOCUMENTS	<u> </u>	<del></del>	EII IN	G DATE		
	INITIAL	DOCUMENT NUMBER			DATE	NAME	CLASS	SUBCLASS	S IF AF	PPRO-		
		AA										
	<del></del> :	АВ										
		AC	<del> </del>					-	_			
		AD	-									
		AE	<del>                                     </del>						<del>  -</del>			
		AF AG	<del> </del>									
		AH					<u> </u>			<del>-</del>		
		AI							-			
		AJ							+			
		AK										
	<del></del>			FORE	GN PATE	NT DOCUMENTS						
		DO	CUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSL	ATION		
	<del>                                     </del>								Yes	No*		
	AL				<del></del>	_			l			
	AM									-		
	AN											
	_AO				ļ							
	AP											
	<del></del>	—т	OTHER PRIOR	ART (Inclu	ding Autho	or, Title, Date, Pertin	nent Pages,	Etc.)				
$\dashv$	AR	Tetranedron Lett., 35, (month unavailable) 1994, pages 3457-3460, Kevin S. Webb. "A Mild										
$\dashv$		mexpensive and Practical Oxidation of Sulfides"										
	AS	Tetrahedron Lett., 38, (month unavailable) 1997, pages 5873-5876, Paul Johnson et al, "The First Preparation of Episulfones from Episulfides: Oxidation Using Oxone®/Trifluoroacetone"										
$\Box$	[	Trost, barry W. et al. Chemoselective oxidation of sulfides to sulfones with not active budges as										
EYAMINED   Persurate Tetrahedroff Letters (1981), 22(14), 1287-90, XP009018367									611			
					1	DATE CONSIDERED						
EXAM	IINER Initial	if refe	rences considered, whe	ther or not cite	ation is in con	formance with MPEP 60	9: Draw line th	rough if not in co	nformance	and		
	EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.											

Copies of documents previously submitted by WIPO.

For	m PTO 1449		IIS Department vi	Commor			Table 5 in the		Sheet	3 of 3		
Rev. 7-80 Patent and Trademark Office						Atty. Docket No Serial No. CS-8440/LeA 36,202 10/518,454						
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)							Applicant Alexander Straub					
AUG 1 0 2005 &							Filing Date Group					
				100	U.S. PATENT DOCUMENTS							
EXAMINER INITIAL			DOCUMENTALIBER		DATE		NAME	CLASS	SUBCLASS	IF A	G DATE PPRO- IATE	
	AA											
		АВ										
		AC				$oxed{oxed}$						
		AD										
		AE										
		AF			·					-	<del>-</del>	
		AG										
·		АН										
		AI										
		AJ								<del></del>		
		AK				-			+			
				FC	REIGN PA	TEN	T DOCUMENTS	<u></u>	-L			
		DOG	CUMENT NUMBER	TE		COUNTRY	CLASS	SUBCLASS	TRANSLATION			
	A1			ļ						Yes	No*	
	AL	<del></del>					<del>_</del>					
	AM							_				
	AN											
$\dashv$	AO											
	AP		OTUES SSISS									
		7	*Kenny Richard I	ART (	Including A	utho	r, Title, Date, Pert	inent Pages,	Etc.)			
	AR	*Kenny, Richard J. et al: "Oxidation of organic substances by potassium peroxymonosulfate"  Journal of Organic Chemistry (1960), 25, 1901-6, XP001155253										
_	46											
$\dashv$	AS	-										
	AT	工							<del></del>		]	
	INER						DATE CONSIDERED					
EXAM not co	INER Initial nsidered. In	if refere	ences considered, whe copy of this form with n	ther or n	ot citation is in	conf	ormance with MPEP 60	09: Draw line th	rough if not in cor	nformance	and	
				- N. COIIII	indinication to a	արուշ	वा।।					

Copies of documents previously submitted by WIPO.